	Applicant : Vincen Serial No. : 09/658 Filed : Septem Page : 2				Attor	s Docket No.:	11926-015001
			1				
		3150	27	56A>G	D919)G	
		3207	1	13G>T			
		3209	í í	15G>C			
-	and the same of th	5444	1	50C>A		3 1	
- 4)	5551		57G>A		3 1	
1 Incl		5573	4	79C>T		} 1	
~ N -/		5659	3	65T>C		3 T	
0		5678	\$2	84T>C	3	3 1	
		5874	54	80C>T	3	} 1	
		5934	5 5	40A>G	3	3 1	
-	D78586	D78586	114010		GEN-BR	CAD PROT	EIN (SEQ
~ 1	ID NO:2)						
ALX		3434	3∦	08C>T	Silen	nt	
' A)		4313	42	87T>C	Silen	ıt	
1/0		4799	9	73A>G		nt	
	J	5255	í í	29C>T			
o U	-	5455		29G>A			
(,0)		5507		81T>C			
		5810	2	84C>T			
		6128	4	02C>T			
		6626		00C>T			
		6686	3	60C>T		nt	
	U09178	U09178	274270		GEN-HA		
	Dihydropyrin		- 4			\ 	
		166		85T>C			
		577	ž.	96A>G			
		638	ė.	57A>G			
		1708	1	27A>G			
		3432		51T>C 01C>T		}	
		3682 3730		49G>A) †	
w w		3925	ă.	44A>G		, }	
		3937		56T>C) }	
	U19720	U19720	600424	1	GEN-I1	, Folate	
	Transporter			ĸ	ODN II	101466	
	rramphoreer	175		80G>A	R27	7Н	
		341		46C>G			
		791		96C>T			
		1067		72G>A			
		1337		42C>A			
		1997		02T>C		3 '	
		2100	2005^200			3 1	
		2582		87T>G		3 1	
		2617		22C>T		3 1	
		2652	25	57T>C	3	3 1	
				3			

Intron

Intron

Intron

Intron

Intron

3125G>A

3212C>T

3619T>A

3635G>A

4256G>A

3125

3212

3619

3635

4256

Applicant: Vincent P. Stanton,
Serial No.: 09/658,659.
Filed: September 8, 2000
Page: 3

Homo sapiens reduced GEN-LUK 600424 U92868 1192868 gene, exons 1a, 1c and 1b (SEQ ID NO:5) folate carrier (RFC1) Intron 431A>G 431 Intron 441A>G 441 Intron 498C>T 498 Intron 579G>C 579 Intron 599G>C 599 Thymidylate GEN-KL 188350 X02308 X02308 synthetase (SEQ ID NO: 6) 3 ' 961T>C 1066 3 ' 1031A>G 1136 3' 1392T>A 1497 Thymidylate GEN-LUC 88350 D00517 D00517 synthase, promoter (SEQ ID NO:7) Intron 276C>T 276 Intron 321T>C 321 Intron 452G>A 452 Intron 457^insC 457 Intron 491C>A 491 Intron 533T>C 533 Intron 624A>C 624 639A>G Intron 639 Intron 655T>C 655 Homo sapiens GEN-LUD 188350 D00596 D00596 gene for thymidylate synthase, exons 1, 2, 3, 4, 5, 6, 7, complete cds (SEQ ID NO:8) Intron 701A>C 701 Intron 716A>G 716 Intron 732T>C 732 Intron 1293A>G 1293 Intron 1322C>G 1322 Intron 1379T>C 1379 Intron 1590C>T 1590 Intron 1688C>G 1688 Intron 2401A>G 2401 Intron 2429G>A 2429 Intron 2488C>T 2488 Intron 2594G>T 2594 Intron 2618G>A 2618 Intron 3083G>A 3083

B

Applicant: Vincent P. Stanton, Serial No.: 09/658,659 : September 8, 2000 Filed

reductase

524

1399

1464

1636

1738

2259

Page	:	4
------	---	---

	1	V
()		X
,	n K	W

	1	
4898	4898A>G	Intron
5006	5006C>T	Intron
5062	5062G>A	Intron
5167	5167G>A	Intron
11069	11069A>G	Intron
11238	11238C>T	Intron
11293	11293T>G	Intron
11422	11422T>C	Intron
11686	11686C>T	Intron
12598	12598T>C	Intron
13171	13171T>C	Intron
13298	13298G>A	Intron
13645	13645T>C	Intron
13751	13751C>A	Intron
13782	18782T>C	Intron
13806	1\$806T>C	Intron
13813	1\$813T>C	Intron
14479	14479A>G	Intron
14546	14546^insT	Intron
14585	14585C>T	Intron
14729	14729G>A	Intron
14787	14787C>T	Intron
14795	14795G>A	Intron
15041	15041T>C	Intron
15343	15343G>A	Intron
15449	15449G>A	Intron
15502	15502G>A	Intron
15545	15545C>T	Intron
15589	15589A>G	Intron
15769	15769C>T	3'
15839	15839A>G	3'
16148	16148G>A	3'
16198	16 1 98T>G	3'
16202	16 2 02G>T	Intron
X59618 X59618	180390 GEN	-M3 Ribonucleotide
uctase M2 polypeptide		
128	(-67)G>A	5'
189	(-6)T>G	5'

3β0C>G

1205T>A

1270G>A 1442C>T

1544C>T

2065T>C

Silent

3 '

3'

31

31

3'

Applicant: Vincent P. Stanton,
Serial No.: 09/658,659.
Filed: September 8, 2000
Page: 5

	4	31222 GEN-3LD Thymidine
0		ID NO:10)
\bigcap	183	19G>A D7N
4.00	483	319C>T 3'
Dra s	601	437G>C 3'
	1299	1135G>A 3'
	M58602 M58602 131222	
-	phosphorylase, promoter and	
	124	124C>T 3'
	439	439G>A 3'
~ 0		1044^insCT 3'
ALTO	1331	1331G>A 3'
' Y Y -	1977	1977G>A Intron
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	2149	2149G>A Intron
$\left(\frac{1}{2} \right)^{-1}$	2467	2467A>G Intron
00	2634	2634C>G Intron
	2975	2975G>A Intron
	3116	3116G>T Intron
	3255	3255A>C Intron
	3344	3344T>C Intron
	4051	4051C>A Intron
	4782	4782G>A Intron
	5022	5022T>C Intron
	5266	5266G>A Intron
	5285	5285C>G Intron
	5438	5438T>A Intron
	5482	5482C>T Intron
	5629	5629G>A Intron
	5648	5648C>T Intron
	5731	5731G>A Intron
-		36510 GEN-4C3 Homo sapiens
		se mRNA, complete cds (SEQ ID NO:12)
_	802	732C>T Silent
	1747	1677G>T 3'
	1900	1830T>C 3'
	U24253 U24253 13651	
	,	se (FPGS) gene, exons 5-11, and
	partial cds (SEQ ID NO:13)	14040\7
	1424	1424C>A Intron
	1649	1649G>A Intron
	2554	2554A>G Intron
	3	36510 GEN-LUF
	NO:14)	se, promoter and exons 1-4 (SEQ ID
	263	263A>G Intron

211.

Applicant: Vincent P. Stanton, Attor S Docket No.: 11926-015001

Serial No.: 09/658,659

Filed: September 8, 2000

Page: 6

		266	1	266G>'	r I	ntron			
		527		527C>0	G I	ntron			
)	1037	1	1037A>	G	5'			
) Mt /	•	1139		1139G>	A I	ntron			
1000		1217	1	1217C>	T I	ntron			
/* /		1647	1	1647C>	T I	ntron			
		1955	1	1955G>	A I	ntron			
		2017	1	2017G>	A I	ntron			
•		2037		2037G>	A I	ntron			
70.		2189		2189A>	-G I	intron			
		2282	1	2282C>	T I	ntron			
W V		2309		2309A>	·G I	ntron			
471	U09806	U0980	6	236250	GEN-4FZ		ıman		
A	methylenete		- 1	reductase	mRNA, p	partial	cds	(SEQ	ΙD
(, 1/0),		cranyaror	0100						
O,	NO:15)	120		120T>	>C 5	Silent			
		464		464T>	>G	M155R			
		519		519C	>T .	Silent			
		668		668C	T <	A223V			
		1059		1059T	>C .	Silent			
		1289		1289C		3'			
		1308		1308T	>C	3'			
		1784		1784G	>A	3'			
	AF061655	AF061655	12	3920 G	EN-LUJ	Cyt	idin∈	:	
	deaminase,		(SEO I	D NO:16)					
	deaminase,	575	(·- ·· ~	√ 575T	>C	Intron			
		648		648T	>C	Intron			
		771		771G	>C	Intron			
		883		\ 883G	>A	Intron			
		941		941^in	sC	5'			
		1051		1051A	/>C	K27Q			
_				A					

In the Claims

Amend claims 171, 172, and 181 as follows.

- 171. (amended) An isolated nucleic acid probe comprising at least 15 contiguous nucleotides of the nucleotide sequence of SEQ ID NO:15 (methylenetetrahydrofolate reductase), the probe comprising at least one of
 - (a) nucleotide 120 wherein N is C;
 - (b) nucleotide 464 wherein N is G;
 - (c) nucleotide 519 wherein N is T;
 - (d) nucleotide 668 wherein N is T;
 - (e) nucleotide 1059 wherein N is C;

P

 Ω